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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/621,449		07/18/2003	Nobuo Matsui	240541US2DIV	240541US2DIV 1115	
22850	7590	08/24/2006		EXAMINER		
C. IRVIN N			ROSSOSHEK, YELENA			
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			ART UNIT	PAPER NUMBER		
ALEXANDRIA, VA 22314				2825		

DATE MAILED: 08/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/621,449	MATSUI ET AL.	
Office Action Summary	Examiner	Art Unit	
	Helen Rossoshek	2825	
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet w	ith the correspondence address	ş
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory perio Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI  1.136(a). In no event, however, may a  d will apply and will expire SIX (6) MON  te, cause the application to become Al	CATION.  reply be timely filed  ITHS from the mailing date of this communion  BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 06	<i>June 2006</i> .		
2a) This action is <b>FINAL</b> . 2b) ⊠ Th	is action is non-final.		
3) Since this application is in condition for allow	ance except for formal matt	ers, prosecution as to the mer	its is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D	). 11, 453 O.G. 213.	
Disposition of Claims			
4)  Claim(s) 1-11 is/are pending in the application 4a) Of the above claim(s) is/are withdrest 5)  Claim(s) is/are allowed.  6)  Claim(s) 1-11 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/	awn from consideration.		
Application Papers			
9) ☐ The specification is objected to by the Examir 10) ☑ The drawing(s) filed on 18 July 2003 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Examir 11.	a) accepted or b) object e drawing(s) be held in abeyar action is required if the drawing	ice. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.1	
Priority under 35 U.S.C. § 119			
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	nts have been received. nts have been received in A ority documents have been au (PCT Rule 17.2(a)).	pplication No. <u>09/865,289</u> . received in this National Stage	е
Attachment(s)  Notice of References Cited (PTO-892)		ummary (PTO-413)	
<ul> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date</li> </ul>		)/Mail Date Iformal Patent Application (PTO-152)	

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## **DETAILED ACTION**

1. This office action is in response to the Application 10/621,449 filed 07/18/2003 and amendment filed 06/06/2006.

- 2. Claims 1-11 remain pending in the Application.
- 3. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 04/26/2006 has been entered.
- 4. Applicant's arguments have been fully considered and are persuasive. A new ground(s) of rejection is made.

## Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 1-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Killian et al. (US Patent 7,020,854).

With respect to claims 1 and 6 Killian et al. teaches a processor (col. 1, Il.15-20), a system LSI (col. 32, Il.40-50); comprising: a processor core (as shown on the Fig. 2 core processor 60 (col. 10, Il.31-39)); and a memory operatively coupled to said processor (as shown on the Fig. 6, wherein core processor 60 (Fig. 2)/CPLD 202 coupled to various memory (col. 32, Il.62-67; col. 33, Il.1-7)); wherein said processor is designed (col. 9, Il.45-50) using the method comprising: selecting a cache size (using configuration options such as selecting instruction/data cache size (col. 11, Il.63-64; col. 19, Il.40-47); selecting an instruction memory size (col. 11, Il.60-62; col. 12, Il.15-17; Il.61-64); selecting a data memory size (col. 43, Il.17-24); selecting at least one of a plurality of option instructions that are provided respectively in correspondence with machine instructions to be implemented within said processor core (col. 24, Il.56-60; col. 6, Il.65-67; col. 29, Il.50-54).

With respect to claim 10 Killian et al. teaches a method of generating a design of a system LSI using a description language (abstract; col., 64-66), comprising: preparing a configuration specifying a file including variable item definition information concerning a multiprocessor configuration (using a configuration manager screen 86 to design configurable processor based on a base processor description (col. 45, II.28-30) as shown on the Fig. 3 and having an ability to create a new file or edit an existing file (col. 11, II.10-23), including configurable instruction set architecture (ISA), wherein variable are used to describe instructions (col. 16, IIi.47-60; col. 7, II.25-28)); creating a customized description language mode (within generating a customized synthesizable hardware description of the configurable processor (col. 10, II.7-9)); and logically

composing said design based on said description language model, wherein said variable item definition information contains at least one item of option instruction information and information concerning a user defined module and a multiprocessor configuration (within generating a configurable process design based on the base processor description, a base instruction set (col. 45, II.28-30) and a plurality of configurable features including additional instruction in the configuration specification, which is different from the base instructions (col. 45, II.30-41), wherein variables are used in describing set of instructions (col. 16, II.47-60).

With respect to claims 2-5, 7-9 and 11 Killian et al. teaches:

Claims 2 and 7: wherein said option instructions include a dividing option instruction (DIV) and a maximum/minimum value option instruction (MINMAX) (within "options" section menu shown on the display window of the Fig. 4, wherein configuration options are divided into plurality of options, for example "Implementation goals" (col. 11, II.24-40), wherein each option instruction has minimum and maximum values such as "Target speed" from 100 MHz to 250 MHz (Fig. 4; col. 11, I.48; col. 19, II.14-23);

Claims 3 and 8: wherein said processor core is provided with an instruction cache and a data cache (col. 11, II.63-65);

Claims 4 and 9: wherein said cache size, said instruction memory size, said data memory size, and said option instructions are provided in RTL templates (col. 33, II.9-11);

Claim 5: wherein said method further comprises selecting optional hardware associated with said processor (col. 17, II.59-63);

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Claim 11: wherein the description language comprises a hardware description

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language (HDL) (col. 7, II.34-49).

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Helen Rossoshek whose telephone number is 571-272-

1905. The examiner can normally be reached on 7:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jack Chiang can be reached on 571-272-7483. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Examiner Helen Rossoshek

AU 2825

A. M. Thompson **Primary Examiner** 

Technology Center 2800/